Biological Agent Reference Sheet (BARS)

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Research Administration

BIOLOGICAL AGENT REFERENCE SHEET

Powassan Virus (POWV)

CHARACTERIST	ICS	DubMad	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC55123
Morphology	Flaviviridae; 40-50 nm diameter, enveloped, single stranded RNA.	Pubiviea	00/ http://www.coppelabs.com/wp-
Growth	Vero E6 cells (ATCC [®] CRL-1586 [™]), suckling mouse (i.c. or i.p. inoculation), weaning mouse (i.c. inoculation), or	Coppe Labs	<u>content/uploads/Coppe-Powassan-Guide-InPg-</u> July 2016.pdf
Conditions	swine kidney cells	CONTAINMENT	
Regulatory	Not a Select Agent. Notifiable disease in the United	CONTAINMENT	BSI 2+ containment is required for handling samples-
requirements	States. USDA/APHIS permit required for shipment.		suspected to be infected with POWV and fixed and
HEALTH HAZARDS			unfixed tick samples. Appropriate safety procedures
	Humans, woodchuck, snowshoe hare, covotes, foxes,		should always be used with these materials.
Host Range	racoons and skunks, domesticated cats and dogs	BSL2+	Biosafety containment requirements: BSL2+ means
Modes of Transmission	POWV spreads to people through the bite of an		BSL2 containment (restricted access, all work with
	infected tick. People do not develop high enough levels		POWV should be conducted inside the biosafety
	of the virus in their blood to infect biting ticks. As a		cabinet) with BSL3 practices and PPE. Lab-specific
	result, people are considered "dead-end" hosts for		procedures (SOPs) will outline specific containment and
	Powassan virus.		practices and PPE.
	Importantly, ticks can harbor and transmit one or more	BSI 3/ABSI 3	BSL3/ABSL3 containment is required for propagation of
	pathogens including Borrelia, POWV, Babesia and	B3L3/AB3L3	the POWV and or for use in animal models.
	Ehrlichia/Anaplasma.		RES
	Mostly asymptomatic. Initial symptoms include fever,	SHEETKOCEDO	Notify others working in the lab Allow aerosols to
Sians and	headache, vomiting, fever. POWV can also cause fatal		settle Don appropriate PPF An FPA-registered
Symptoms	neuro-invasive disease in the form of encephalitis or		disinfectant should be used to remove contaminating
Symptoms	meningitis. Approximately 10% of POWV encephalitis	Small	matter from surfaces (e.g., of bench tops and
	cases are fatal.		equipment). All decontamination litter and other
Infectious Dose	Unknown		disposable materials should be autoclaved.
Incubation	1 week to 1 month		Contact Emory's Biosafety Officer (404-727-8863). the
Period		Larae	EHSO Office (404-727-5922), or The Spill Response
		ge	Team (404-727-2888)
Pronhylaxis			
FIOPHYIUXIS	None	EXDOSLIBE DRO	
Vaccines	None	LAFOJORL FRO	CEDURES
Vaccines	None Healthcare providers diagnose POW/V infection based	Mucous	Flush eyes, mouth or nose for 15 minutes at eyewash
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